



## ALAMEDA COUNTY CONGESTION MANAGEMENT AGENCY

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### Memorandum

*June 8, 2009  
Agenda Item 7.1*

**Date:** May 30, 2009

**To:** Sunol Express Lane Joint Powers Authority

**From:** Ray Akkawi, Manager of Project Delivery

**Subject:** I-680 Express Lane Project: Enforcement Methodology and Technologies - Update

As the Bay Area Toll Authority (BATA) HOT Lane Network plan is developing, measures to enhance the enforcement methodologies and technologies are being developed. License Plate Recognition (LPR), Video Enforcement Cameras (VEC), Mandatory Registration of all Express Lane Users, Beacons for CHP at each toll zone, and On-board mobile tag and account readers are some of the measures the Express Lanes Management and Operations Committee (M&OC) is studying and developing.

A Regional Concept of Operations report submitted to the M&OC discusses the need for instant enforcement verification. The report discusses the current enforcement technology to determine both buffer crossing and occupancy enforcement that is performed manually by CHP under contract. CHP must be able to detect if a toll was paid and compare that record with the car's occupancy. The report recommended the following measures:

1. Mandatory Registration of all Express Lane Users
2. License Plate Recognition to augment toll zones
3. Beacons for CHP at each toll zone
4. On-board mobile tag and account readers for CHP.

The I-680 Express Lane project has specified the beacons at each toll zone as a measure to help the CHP enforce the facility. It also provided a means to allow writing back to the mobile unit with the officer about the account and tag reads. The only measure that will have a financial impact to the project is the LPR concept. An immediate impact will be the installation of the infra-structure for these cameras, i.e. the electrical conduits, the additional loop detectors, and possible poles for front plate recognition camera. The System Integrator consultant was asked to submit a cost estimate for all these additional elements. Due to the continuous improvements to the camera/video technology, the cameras will be placed at the time when adoption of the concept and the proper legislation is passed.

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